



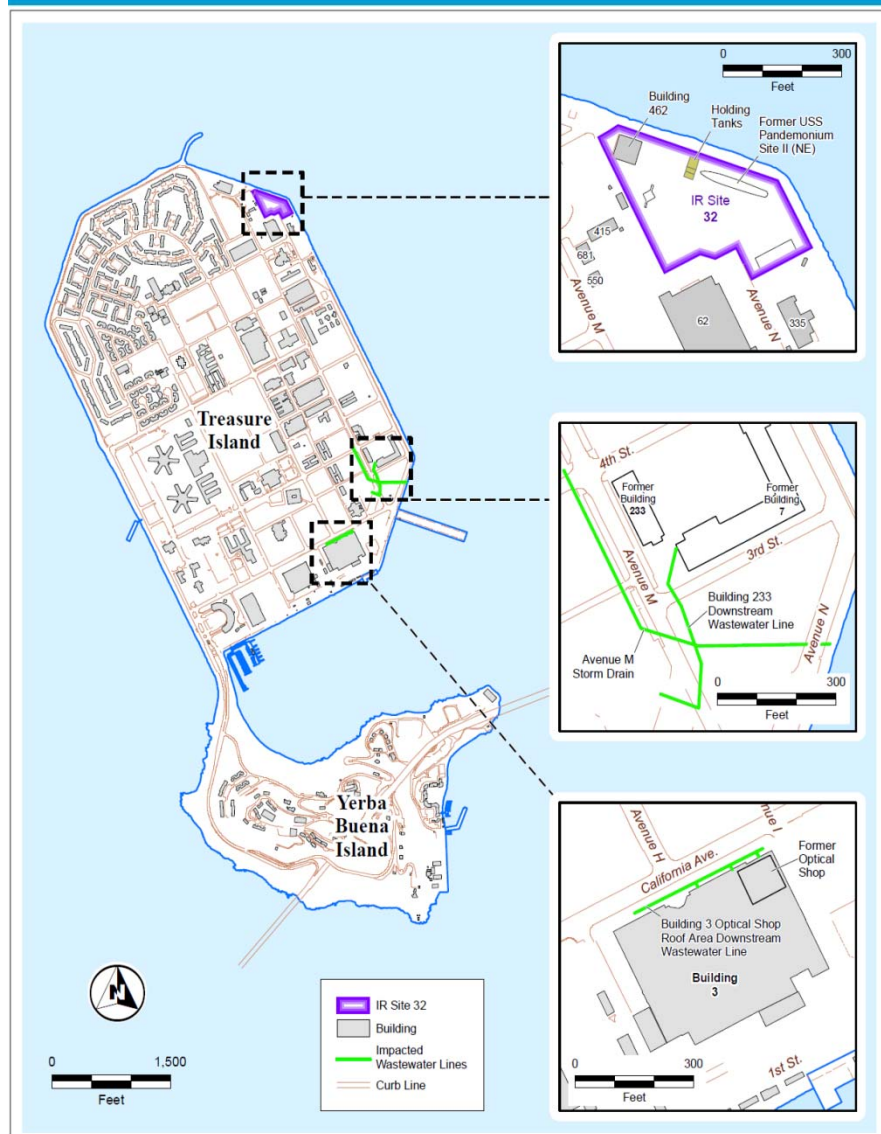
Radiological Surveys at Various Areas Former Naval Station Treasure Island

July 2015 BCT Meeting

Danielle Janda, Navy Remedial Project Manager

7/15/2015

Radiological Scanning of Various Areas – Part I



• Three Project Areas

- Building 3
- Selected Storm and Wastewater Lines
- IR Site 32

Changes to Radiological Survey Report Deliverables



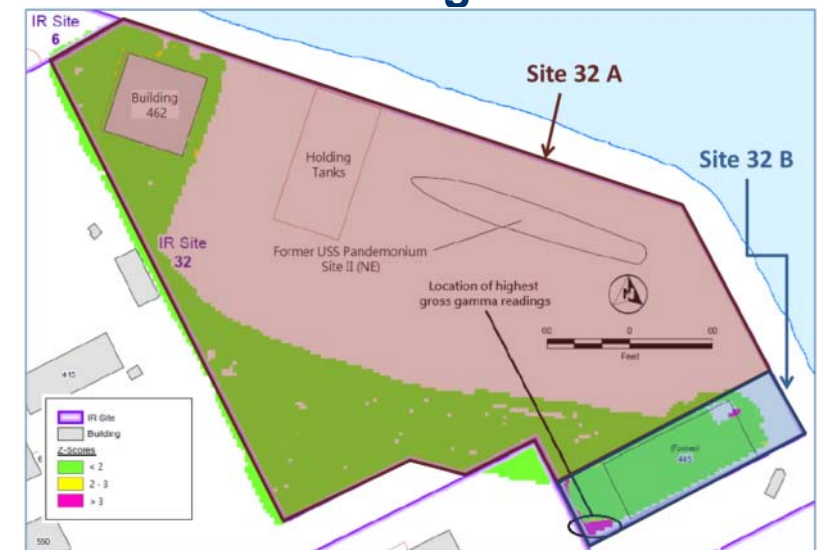
Modification to Contract was Awarded

- **Original Scope: Single report with all three project area**
- **Revised Scope: Three separate reports will be produced:**
 - **Building 3 Final Status Survey Report**
 - **IR Site 32 Final Status Survey Report**
 - Requires Additional Data Collection
 - **Selected Wastewater Lines Survey Report**

IR Site 32A Final Status Survey Report



- **Elevated alpha activity was identified on the upper wall surfaces of the holding tanks**
 - Composite concrete sample was inconclusive
- **Further investigation of these areas will be performed**
 - Alpha/beta scan of the tank surfaces will be performed to determine the presence of elevated alpha activity
 - 27 systematic statics will be taken within each holding tank
 - Discrete concrete samples will be taken from the holding tank



Draft Survey Report Schedule



Schedule

Draft Building 3 FSS Report	August 10, 2015
Draft Site 32 FSS Report	November 16, 2015
Draft Selected Storm Water Survey Report	September 17, 2015

Radiological Scanning of Various Areas – Part II



- **Five (5) Project Areas:**
 - TI Northeast Corner
 - IR Site 30 and Related Areas
 - IR Site 24 Areas – Lot 69 and Building 342
 - IR Site 20
 - Selected Storm and Wastewater Sewer Lines

TI Northeast Corner



Status as of 7/13/2015

SU	Surface Material	Scans (% Complete)	Swipe/Soil Samples (% Complete)	Remediation Required (Yes/No)
1	Soil	0%	0%	
2	Building interior	15%	0%	
3	Building exterior	0%	0%	
4	Asphalt	90%	0%	
5	Asphalt	90%	0%	
6	Asphalt	90%	0%	
7	Asphalt	90%	0%	
8	Asphalt	90%	0%	

IR Site 30/30N/30S



Status as of 7/13/2015

SU	Surface Material	Scans (% Complete)	Swipe/Soil Samples (% Complete)	Remediation Required (Yes/No)
1	Asphalt/Soil	100%	0%	
2	Asphalt/Soil	100%	100%	No
3	Asphalt/Soil	100%	100%	No
4	Asphalt/Soil	100%	0%	
5	Asphalt	100%	100%	
6	Asphalt/Soil/ Concrete	100%	0%	
7	Asphalt/Soil/ Concrete	100%	0%	
8	Asphalt	100%	0%	
9	Asphalt	90*%	40%	
10	Asphalt	100%	100%	No

90*% = Surface scan is 100% complete. Data is being reviewed and additional static measurements may be collected.

IR Site 30 Debris Investigation



- Ten borings were advanced adjacent to and under Bldg 502
- Two samples were collected per boring and analyzed for gamma spec (Ra-226 and daughters)
- Identified burnt debris in 2 borings, consistent with previous findings
- Draft 7-day results are below screening criterion



IR Site 24 Areas – Lot 69 and Building 342



Status as of 7/13/2015

SU	Surface Material	Scans (% Complete)	Swipe/Soil Samples (% Complete)	Remediation Required (Yes/No)
1	Asphalt/Soil/Concrete	100%	0%	
2	Building interior	90*%	100%	
3	Asphalt/Soil/Concrete	90*%	100%	
4	Asphalt/Soil/Concrete	90*%	0%	
5	Asphalt/Soil	100%	100%	No

90*% = Surface scan is 100% complete. Data is being reviewed and additional static measurements may be collected.

IR Site 20



Status as of 7/13/2015

SU	Surface Material	Scans (% Complete)	Swipe/Soil Samples (% Complete)	Remediation Required (Yes/No)
1	Asphalt	30%	0%	
2	Asphalt	30%	0%	
3	Asphalt/Soil	85%	0%	



Selected Storm and Wastewater Sewer Lines



Former Building 233 Work Completed:

–Catch Basins 506, 546, and 438 have been excavated and sampled

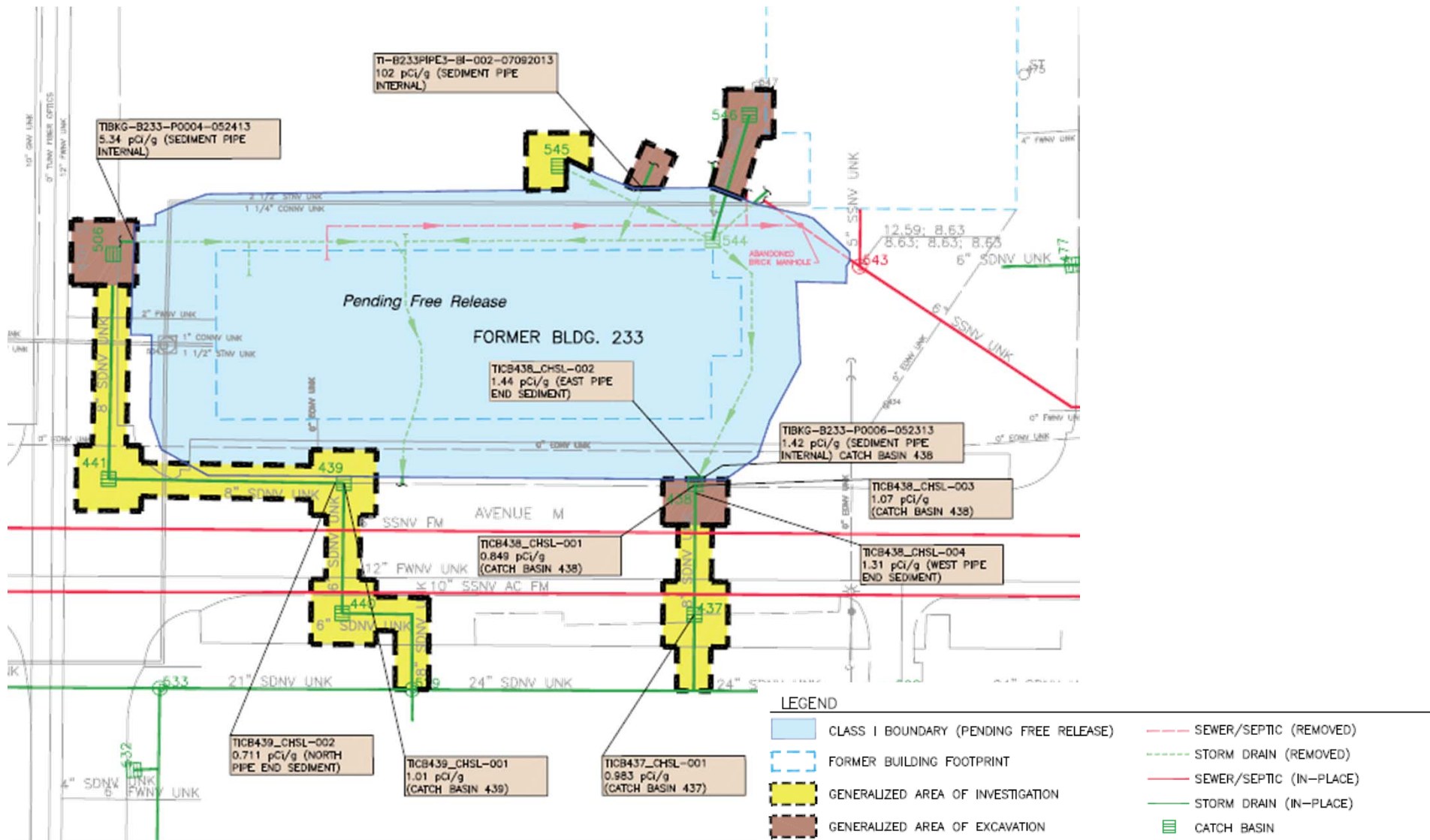


CB 546



CB 506

Selected Storm and Wastewater Sewer Lines, Building 233



Selected Storm and Wastewater Sewer Lines, Building 233, Sediment Samples



Sample Location	Sample Date	Radium-226 (pCi/g)	
		Result (pCi/g)	MDC
CB 437	5/14/2015	0.983	0.111
CB 437	5/14/2015	0.659	0.153
CB 438	5/13/2015	0.849	0.0923
CB 438 East Pipe End	5/13/2015	1.44	0.119
CB 438	5/13/2015	1.07	0.082
CB 438 West Pipe End	5/13/2015	1.31	0.102
CB 439	5/14/2015	1.01	0.227
CB 439 North Pipe End	5/14/2015	0.711	0.148
CB 439 West Pipe End	5/14/2015	0.192	0.509
CB 439	5/14/2015	0.581	0.106
CB 440	5/14/2015	0.646	0.0947
CB 440	5/14/2015	0.436	0.119
CB 441 East Pipe End	5/14/2015	0.64	0.0891
CB 441	5/14/2015	0.361	0.0984
CB 441 South Pipe End	5/14/2015	0.571	0.155
CB 441	5/14/2015	0.426	0.113
CB 506 West Pipe End	5/13/2015	0.321	0.0973
CB 506	5/13/2015	0.455	0.138
CB 545	5/14/2015	0.633	0.132
CB 545	5/14/2015	0.451	0.124
CB 546 West Pipe End	5/13/2015	0.506	0.216
CB 546	5/13/2015	0.567	0.0903
Above TI background for Ra-226 (0.69 pCi/g)			

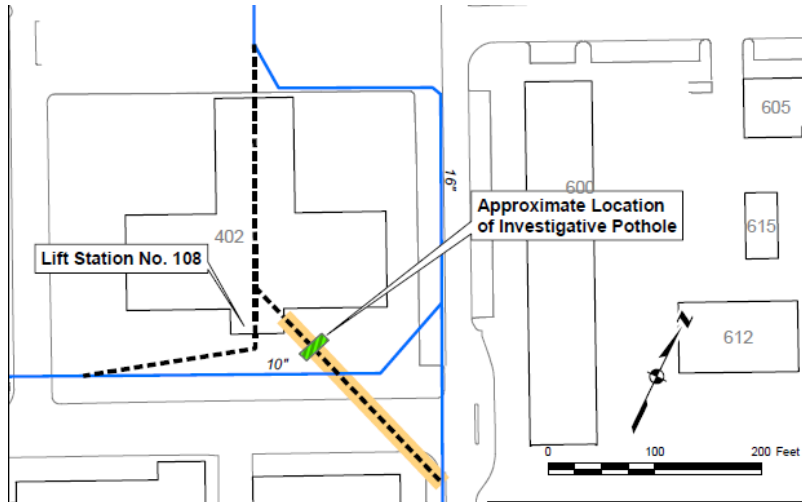
Selected Storm and Wastewater Sewer Lines



- **Active Wastewater Lines Along Avenue M**
 - Practice Run of shutting down the line on July 8
 - Survey is tentatively scheduled for July 29



Selected Storm and Wastewater Sewer Lines



- **Abandoned Storm Drain Lines near Building 402**
–No pipeline identified



Selected Storm and Wastewater Sewer Lines



- **Abandoned Storm Drain Lines near Building 402**
—No pipeline identified



Schedule

Field Work	May – July 2015
Draft FSS Reports to BCT	October – November 2015
Agency and Navy Comments Due	November 2015
Resolve and Concur on Agency Comments	November – December 2015
Final FSS Reports to BCT	December 2015

Questions?

